

## Hazard Control Plan

**Title:** General Facility Activities: Work Planning, Inspections and Oversight

**Identifying Number:** P-FM-HCP-016-2001.1

**Initial Risk Estimate:** Medium

**Residual Risk Estimate:** Low

**Work Permits:**

Permits may be required for specific facility management units, technical areas, buildings, operations, or other areas, such as ER/D&D sites. These may include, but are not limited to: special electrical work permits (SEWPs), radiation work permits (RWPs), confined space entry permits, and safety work permits. P-FM team members must make themselves aware of any permit or procedural requirements before entry into the work area. For ER/D&D, the Site-Specific Health and Safety Plan (SSHASP) must also be followed. In some cases the ES&H team members will be the subject matter experts (SME) that determine the need for and/or issue the permits.

**Document Prepared By:** Stephanie Archuleta, FMU 77 ES&H Team Leader  
Name/Title

**Organization:** P-FM

**Document Reviewed By:** Tommy Montoya, Safety Professional 03/15/2001  
Name/Title Date

**Work Authorization:**

<u>David Riker/ Facility Manager</u>		
Name/Title	Signature	Date

**Periodic Review Schedule:** Every 3 years or as modification is necessary through feedback or activity change.

**Revision Record:** Reviewed and revised 2/25/2001, major content changes to expand scope of activities.

Reviewed and revised 3/15/2001, training requirements and worker authorization clarified.

**SCOPE:**

This Hazard Control Plan applies to all P-FM personnel performing activities including, but not limited to: facility work control evaluations; facility, equipment & ES&H inspections; audits & assessments; waste management or sampling in all facility space such as equipment rooms, construction sites, tenant-occupied space, etc. To include oversight of subcontractors and formal inspection of work areas.

**DESCRIPTION OF OPERATION:**

P-FM personnel provide general facility management, oversight and ES&H support for facility and operational activities within FMU 77 at Los Alamos National Laboratory. These activities include, but are not limited to:

- Hazard evaluations
- Inspections and Self-Assessments
- Facility engineering
- Work verification
- Contractor interface
- Assist in building siting
- Audits and assessments
- Oversight of subcontractor activities
- Injury/illness investigation and reports
- Investigation for occurrence reports
- Activities associated with Facility Work Control & Safe Work Practices
- PPE recommendation and approval
- Emergency and Urgent response
- Implementation of ES&H programs

Limitations: P-FM personnel are not authorized asbestos, lead or beryllium workers. This type of work will be performed under additional HCPs and training plans.

**MATERIAL AND EQUIPMENT:**

Equipment normally used to perform these functions may include appropriate personal protective equipment such as safety shoes, safety glasses, hard hats, gloves, coveralls, hearing protection, dosimetry and/or sampling equipment and measurement devices. Government vehicles may also be used.

**LANL AND REGULATORY REQUIREMENTS:**

- U.S. Dept of Labor, Occupational Safety and Health Administration (OSHA) 29 CFR 1910 and 1926.
- 1998 American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLV's) and Biological Exposure Indices (BEI's) for Chemical Substances and Physical Agents
- 10CFR835 and LANL Occupational Radiation Protection LIR402-700-01.0

- LANL Environmental /Public Protection LIRs (Do we need to be specific as is done with the LANL Health and Safety LIRs below)
- LANL Health & Safety LIRS
  - Chemical Management LIR 402-510-01.0
  - Personal Protective Equipment LIR 402-1000-01
- P-FM-HCP-017-00.0 ES&H Evaluations, Inspections, and Sampling

**FACILITY SPECIFIC REQUIREMENTS:**

It is the responsibility of each P-FM employee to become familiar with the site hazards of the work area prior to entering. The employee may require escort by a person who is familiar with the area specific hazards. It is also required that new P-FM workers be mentored and oriented before performing work in an area.

*Note:* The applicable facility spaces (i.e. construction sites) are dynamic work environments, thus site hazards should be evaluated upon each entry.

**EMERGENCY ACTIONS:**

P-FM employees should be familiar with emergency signals, procedures, and emergency equipment (pull boxes, etc.) for the facility, building, area, or operation. Emergency contacts and numbers should be posted at the main entrance to area. Personnel should be knowledgeable of muster areas designated for the site being evaluated. Call 911 for immediate crisis/fire/medical assistance. *“In the event of an emergency, remember that your first responsibility is for your own safety. Do not try to perform any shutdown procedures if it would mean compromising your safety.”*

**CONSTRUCTION AREA WORK ACTIVITIES/HAZARDS/CONTROLS:**

<b>Activity</b>	<b>Hazard</b>	<b>Control</b>
Inspections, Investigations, Evaluations, Audits & Assessments, Oversight function	General Site Hazards	<ul style="list-style-type: none"> <li>• Check-in with site supervisor to be briefed on site conditions/hazards.</li> <li>• Obey all signs &amp; postings.</li> <li>• Proper PPE to include hard hat, safety glasses, safety shoes and other required site-specific PPE (e.g. hearing protection) as posted on the entrance requirements.</li> </ul>
	Struck by Falling or Propelled Equipment or Debris	<ul style="list-style-type: none"> <li>• Proper PPE to include hard hat, safety glasses, safety shoes.</li> <li>• Take caution to remain outside the designated cone of safety, if applicable.</li> </ul>
	Overhead Hazards (cranes, lifts, etc.)	<ul style="list-style-type: none"> <li>• Proper PPE to include hard hat, safety glasses, safety shoes.</li> <li>• Take caution to remain outside the designated cone of safety, if applicable.</li> <li>• P-FM-HCP-009-00.0 Crane &amp; Forklift Use.</li> </ul>
	Slips, trips & falls	<ul style="list-style-type: none"> <li>• Be aware of site conditions.</li> <li>• Be aware of weather conditions.</li> <li>• Proper PPE to include hard hat, safety glasses, safety shoes.</li> </ul>
	Falling/working/entry into an excavation	<ul style="list-style-type: none"> <li>• Obey signs &amp; postings</li> <li>• Be aware of routes of egress</li> <li>• Excavations greater than 4 feet deep will not be entered.</li> </ul>
	Confined Space Entry	<ul style="list-style-type: none"> <li>• See P-FM-HCP-019-00.0 Confined Space Entry</li> </ul>
	Fall from an Elevated Work Surfaces	<ul style="list-style-type: none"> <li>• Stay at least 6 feet from edge. If edge work is necessary, consult ES&amp;H Safety SME as fall protection/arrest is required.</li> </ul>
	Ladder Use: fall from elevation	<ul style="list-style-type: none"> <li>• Tie off or otherwise secure ladder</li> <li>• Set portable ladder on level surface</li> <li>• Inspect ladder prior to use</li> <li>• Do not exceed ladder's load capacity</li> <li>• Ladder Safety Training</li> </ul>
	Exposure/Proximity to Spark & Flame Operations	<ul style="list-style-type: none"> <li>• Ensure arc is shielded from view of unprotected personnel</li> <li>• Turn view away from source of spark.</li> </ul>
	Heavy Equipment: noise & struck by moving parts	<ul style="list-style-type: none"> <li>• Hearing Protection for noise</li> <li>• Hard hat, safety glasses &amp; safety shoes</li> <li>• Be aware of moving equipment signals, such as backup alarms.</li> <li>• Attention to the work environment: signs, postings &amp; barricades</li> </ul>

<b>Activity</b>	<b>Hazard</b>	<b>Control</b>
	Exposure to contaminants	<ul style="list-style-type: none"> <li>• Knowledge of processes, check-in with site supervisor for site information</li> <li>• Attention to the work environment: signs, postings &amp; barricades</li> <li>• Ensure properly functioning engineering controls (i.e. ventilation systems, enclosures) Contact P-FM ES&amp;H or ESH-1 for Radiation Concerns or ESH-5 for chemical concerns.</li> </ul>
	Unprotected energized electrical systems	<ul style="list-style-type: none"> <li>• Obey all signs, postings &amp; barricades</li> <li>• Treat all electrical systems as potentially energized.</li> <li>• </li> </ul>
Electrical Troubleshooting	See P-FM-HCP-00X-00.0	<ul style="list-style-type: none"> <li>• See P-FM-HCP-006-00.1</li> </ul>
Waste Management Activities	See P-FM-HCP-005-00.1	<ul style="list-style-type: none"> <li>• See P-FM-HCP-005-00.1</li> </ul>
Sampling Activities	See P-FM-HCP-017-00.1	<ul style="list-style-type: none"> <li>• See P-FM-HCP-017-00.1</li> </ul>

**KNOWLEDGE, SKILLS AND ABILITIES NECESSARY TO UTILIZE TIME CONTROLS AND PERFORM THE WORK SAFELY:**

P-FM personnel authorized to perform work under this HCP shall meet job description requirements. Because of the unknown nature of each situation encountered, a general knowledge of facility ES&H principles is necessary to do work safely. A worker needs to be able to anticipate, recognize, and control hazards associated with work areas.

**FORMAL AND ON-THE-JOB TRAINING:**

**Required Training:**

- Ladder Safety Training (Course #12985)
- Lock-out Tag-Out Procedures (Course #13337)
- Lock-Out Tag-Out Refresher (Course #17551 or 17552)
- LANL Electrical Safety Program (Course #16750)
- Hazard Communication Introduction (Course #2398)
  - Note: **Hazard Communication.** A live and a self-study course is available from the ES&H Training Group (ESH-13), White Rock Training Center. Hazard Communication is given during General Employee Training (GET) and whenever new hazards are introduced.

**Suggested Training:**

- Confined Space Awareness (Course #7294)
- Asbestos Awareness (Course #14727)
- Lead Awareness (Course # 15331)
- Beryllium Awareness (Course # 725)

**On-the-Job Training:**

- P-FM employees must read and sign this HCP before performing the applicable activities.
- Workers must be knowledgeable of construction site hazards through applicable experience, professional qualification, or formal training and education in an applicable field.

**WASTES PRODUCED**

N/A

**Worker Acknowledgement:**

I have read and understand this Hazard Control Plan:

_____ Name/Title	_____ Signature	_____ Date
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